Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4117	707/104.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:10
L2	286	1 and "vehicle"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:12
L3	40	1 and (manufacture same (configuration option))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:16
L4	327	715/751.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:27
L5	405	706/47.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:27
L6	138	706/48.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:28
L7	24	5 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:28
L8	273	706/50.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:37
L9	1	706/50.ccls. and ((bill adj materials) BOM)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:37

L10	17	"706".clas. and ((bill adj materials) BOM)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:37
L11	1	kroeger.in. and monke.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L12	75677	manufactur$4 same (part inventory component) same (link relation$6 connect$6 interconnect$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L13	107	L12 and (MRP (manufact$6 adj resource adj plan$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L14	27	(MRP (manufact$6 adj resource adj plan$6)) and (part adj3 (coordinate$2 position$2 placement$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L15	58	(MRP (manufact$6 adj resource adj plan$6)) same (variant$2 configur$6 option$2 custom$8) and (bill adj2 materials)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L16	34	(MRP (manufact$6 adj resource adj plan$6)) same (variant$2 configur$6 option$2 customiz$6) and (bill adj2 materials)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L17	56	parts adj database and interconnection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L18	244	inventory adj database same (connection interface interconnection links)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L19	35	(inventory adj database same (connection interface interconnection links)) and manufacture	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43

L20	550148	(component same (connection connector interface relationship interconnection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L21	1495	(component same (connection connector interface relationship interconnection)) and ((part inventory) adj database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L22	63	(component same (connection connector interface relationship interconnection)) and ((part inventory) adj database) and erp	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L23	91	((part inventory) same (connection connector interface relationship interconnection)) and ((part inventory) adj database) and erp	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L24	345	bom same (connection interface relationship connector)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L25	9	bom same (part adj2 (connection interface relationship connector))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L26	131	((inventory adj database) or mrp or (manufactur$4 adj resource adj plan$6)) and ((part adj2 connect$5) wiring)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L27	92	((inventory adj database) or (materials adj requirement adj plan$6)) and ((part adj2 connect$5) wiring)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L28	294	bom and (link same (connector connection interface relationship))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L29	14	bom and (link same (connector connection interface relationship)) and (part adj database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43

L30	35	bom and (fastener)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L31	2	(manufacture adj2 resource adj2 planning) and (database same (interface connection relationship connector wiring))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L32	68	(manufact$6 adj2 resource$2 adj2 plan$6) and (database same (interface connection relationship connector wiring))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/23 10:43
L33	16	((project adj management) same database) same documentation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L34	124	(manufact$8 adj resource adj plan$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L35	16	(manufact$8 adj resource adj plan$6) and documentation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L36	5	(rule adj evaluation) and (dnf (conjunctive adj normal adj form))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L37	2	(rule adj evaluation) and (cnf (conjunctive adj normal adj form))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L38	4	(rule adj evaluation) and (dnf (disjunctive adj normal adj form))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L39	7	(manufact$8 adj resource adj plan$6) and (time adj6 valid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43

L40	6	(manufact$8 adj resource adj plan$6) and (date adj6 valid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L41	11	(manufact$8 adj resource adj plan$6) and (date same valid)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L42	3	(manufact$8 adj resource adj plan$6) and (date adj5 entry)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L43	15	(manufact$8 adj resource adj plan$6) and (date same entry)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:43
L44	636	703/1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:54
L45	65	703/1.ccls. and ((expert adj system) (knowledge adj base$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/23 10:55

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XF Zha, SYE Lim, SC Fok - Int J Adv Manuf Technol, 1999 - springerlink.com
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Next-generation Intrusion Detection **Expert System** (NIDES): a summary
D Anderson, T Frivold, A Valdes - TechnicalReportSRICSL9507, ComputerScienceLaboratory, ..., 1995 - atbruegge27.informatik.tu-muenchen.de
... 1 All **product** names used in this manual ... whereby a candidate NIDES **configuration** could run ... SRI included development of specific **expert system** rules, statistical ...
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... for main concepts in **product configuration**, including configu ... more suitable for representing **configuration** knowledge ... stable model semantics, the Smodels **system**. ...
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Using Knowledge Acquisition and Representation Tools to Support Scientific Communities
BR Gaines, MLG Shaw - AAAI, 1994 - ksi.cpsc.ucalgary.ca
... The resultant grid is clustered to feed back to the **expert** the overall conceptual structure ... Modular fabrication **system** Human operator of intelligent **product** ...
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[CITATION] An approach to knowledge representation and reasoning for **product configuration** tasks
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F Hayes-Roth... - Communications of the ACM, 1985 - doi.ieeecomputersociety.org
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1 Expert systems for configuration at Digital: XCON and beyond
Virginia E. Barker, Dennis E. O'Connor, Judith Bachant, Elliot Soloway
March 1989 **Communications of the ACM**, Volume 32 Issue 3
Full text available: pdf(2.29 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Members of Digital Equipment Corporation's team of expert system experts reflect and recount a decade's worth of lessons learned in designing, and building a core of configuration systems

2 Expert systems: perils and promise
D. G. Bobrow, S. Mittal, M. J. Stefik
September 1986 **Communications of the ACM**, Volume 29 Issue 9
Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Based on a review of some actual expert-system projects, guidelines are proposed for choosing appropriate applications and managing the development process.

3 DFTEXPERT: an expert system for design of testable VLSI circuits
Sudipta Bhawmik, P. Pal Chaudhuri
June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: pdf(775.77 KB) Additional Information: full citation, abstract, references, index terms

To tackle the current day testing complexity of VLSI circuits Design For Testability (DFT) is becoming more of a necessity. However VLSI designers are yet to accept DFT mainly due to lack of effective tools. Expert Systems technology promises to be an useful means to present to the designer the gamut of DFT knowledge developed so far, primarily by test experts, in a more effective way. DFTEXPERT is an attempt towards this direction. This paper presents the major components of DFTEXPERT and ...

4 Separating control from structural knowledge in construction expert systems
Andreas Günter, Roman Cunis, Ingo Syska

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: pdf(790.08 KB) Additional Information: full citation, abstract, references, index terms

In most expert systems for constructional tasks the knowledge base consists of a set of facts or object definitions and a set of rules. These rules contain knowledge about correct or ideal solutions as well as knowledge on how to control the construction process. In this paper we present an approach that avoids this type of rules and thus the disadvantages caused by them. We propose a static knowledge base consisting of a set of object definitions interconnected by is-a and part- ...

5 Evaluation of an expert system for searching in full text

S. Gauch

December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a prototype expert system which provides online search assistance. The expert system automatically reformulates queries, using an online thesaurus as the source of domain knowledge, and a knowledge base of domain-independent search tactics. The expert system works with a full-text database which requires no syntactic or semantic pre-processing. In addition, the expert system ranks the retrieved passages in decreasing order of probable relevance. Users' search ...

6 Short Papers: An intelligent dialogue for online rule based expert systems

Sascha Mertens, Marius Rosu, Yuliadi Erdani

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Full text available: pdf(308.69 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a concept for creating free configurable, intelligent behaving web dialogues for rule based expert systems. Free configurable is meant to indicate, that the dialogue module developed with this concept is domain independent and being configurable without needing means of programming. Intelligent means that it in spite of this independency, it can behave in accordance to the expert system's knowledge and the received user inputs.

Keywords: dynamic web interface, expert systems, intelligent dialogue, rule based systems

7 Process design of oil and gas production facilities using expert systems

Hafez Aghili, George Montgomery, Al Amlani, Jatin Shah

June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(754.72 KB) Additional Information: full citation, abstract, index terms

An expert system known as the Automated Project Design System (APDS™) has been developed to assist process and facilities engineers in performing preliminary feasibility studies, optimization studies, and provide the basic information required for the initiation of the detailed design for offshore oil and gas production facilities. Given the feedstock and product specifications, the expert system produces a preliminary process flow diagram showing all major pieces of equipm ...

8 PVDaCS: a prototype knowledge-based expert system for certification of spacecraft data

Cathleen Wharton, Patricia J. Shiroma, Karen E. Simmons

June 1989 **Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(488.47 KB) Additional Information: full citation, abstract, references, index terms

On line data management techniques to certify spacecraft information are mandated by increasing telemetry rates [SiC87]. Knowledge-based expert systems offer the ability to certify data electronically without the need for time consuming human interaction. We have explored issues of automatic certification by designing a knowledge-based expert system to certify data from a scientific instrument, the Orbiter Ultraviolet Spectrometer (OUVS), on an operating NASA planetary spacecraft, Pioneer V ...

9 Expert systems and information retrieval

Gerard Salton

April 1997 **ACM SIGIR Forum**, Volume 31 Issue 1

Full text available: pdf(310.61 KB) Additional Information: full citation, index terms

10 Plant control expert system coping with unforeseen events—model based reasoning using fuzzy qualitative reasoning

J. Suzuki, N. Sueda, Y. Gotoh, A. Kamiya

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(856.86 KB) Additional Information: full citation, abstract, references, index terms

An ordinary expert system controls a plant according to heuristics. So, it fails to control the plant for lack of heuristics if unforeseen events occur as a result of abnormal situations. We propose a new framework of model-based reasoning that can dynamically generate the knowledge for plant control against unforeseen events. This proposed framework consists of three functions: (a) generation of the goal state after recovery from the unforeseen events; (b) generation of knowledge f ...

11 A management system for a PACS network in a hospital environment

Viviane Jonckers, B. Criel

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, index terms

The paper reports on a network management system for a Picture Archiving and Communication System (PACS) in a hospital environment. The size of a typical data transfer in this environment is several orders of magnitude larger than a typical data transfer in a local area computer network. To ensure reasonable response times to the system's users, it is necessary to sequentialise the image traffic on the PACS network. Knowledge about patient flow, radiologist flow, and image flow which is ava ...

12 Predicting expert system success: an expert system for expert systems

Il-Yeol Song, Joseph LaGue

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**

Full text available: pdf(1.78 MB) Additional Information: full citation, references, index terms

13 Approximate modelling of cognitive activity: towards an expert system design aid

Phil Barnard, Michael Wilson, Allan MacLean

May 1986 **ACM SIGCHI Bulletin , Proceedings of the SIGCHI/GI conference on Human factors in computing systems and graphics interface**, Volume 17 Issue SI

Full text available: pdf(552.40 KB) Additional Information: full citation, abstract, references, citings, index terms

Constructs from theoretical psychology can be used to decompose the representational and processing resources of cognition. The decomposition supports "cognitive task analysis" through which user performance can be related to the functioning of resources. Such functional relationships have been formalised and embodied in an expert system. This builds approximate models which describe cognitive activity associated with the execution of dialogue tasks. Attributes of these "c ...

14 Consulting without consultants: expert systems applications in user services

E. Johnson, W. Wehrs, T. Delfield, J. Imhoff, V. Manter

October 1989 **Proceedings of the 17th annual ACM SIGUCCS conference on User Services**

Full text available: pdf(792.51 KB) Additional Information: full citation, abstract, references, citings, index terms

One major challenge to User Services personnel is keeping current with new developments in the area they support. Computer technology is in a state of constant change. Staff must not only provide consulting on current products; they must also provide advice on future trends for users eager to remain on the cutting edge of technology. The pace is quickening rather than slowing. Frand et al., in a 1987 survey of university business schools, found that microcomputers, since their introduction ...

15 Automatic model synthesis: using automatic programming and expert systems techniques toward simulation modeling

Karen J. Murray, Sallie V. Sheppard

December 1987 **Proceedings of the 19th conference on Winter simulation**

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings, index terms

A Knowledge-Based Model Construction (KBMC) system is described which has been developed to automate the model construction phase of the simulation life-cycle. The system utilizes a knowledge-based approach to automatic programming to build a simulation model and extends the knowledge-based approach to include model specification acquisition. The system's underlying rule base, implemented in the production system paradigm of OPS83, incorporates several types of knowledge. Domain knowledge i ...

16 Network management using expert diagnostics

Wayne Fuller

August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, citings, index terms

Networks have become a key component of the corporate infrastructure. Managing the networks, which often carry a diverse set of information (e.g. voice, data, video) over a diverse set of media (e.g. wire, cable, RF) with a mixture of owned and leased transmission assets that are often geographically distributed and run a diverse set of protocols, is a major challenge. One of the most promising techniques applies expert system approaches to the management of networks. Co ...

17 Late breaking results: short papers: A logic block enabling logic configuration by non-experts in sensor networks

Susan Cotterell, Frank Vahid

April 2005 **CHI '05 extended abstracts on Human factors in computing systems**

Full text available: pdf(233.00 KB) Additional Information: full citation, abstract, references, index terms

Recent years have seen the evolution of networks of tiny low power computing blocks, known as sensor networks. In one class of sensor networks, a non-expert user, who has little or no experience with electronics or programming, selects, connects and/or configures one or more blocks such that the blocks compute a particular Boolean logic function of sensor values. We describe a series of experiments showing that non-expert users have much difficulty with a block based on Boolean logic truth table ...

Keywords: boolean logic, eBlocks, embedded computing systems, sensor networks, truth table

18 Software configuration—an NP-complete problem

Jerry Calabaugh

August 1988 **ACM SIGMIS Database**, Volume 19 Issue 2

Full text available: pdf(657.30 KB) Additional Information: full citation, abstract, index terms

Configuration Control File (CCF) production is very complex, thousands of code packages, data blocks and parameter values must be linked under many constraints including:*Common data and code less than 8192 bytes*Maximum of 5 registers per task*All systems data must have common capabilitiesNP-complete problems are commonly known as knapsack or bin packing problems. They have no known algorithm which solves them in a time period bounded by a polynominal function of the number of inputs. Rules-of- ...

19 A review of barriers to expert system diffusion

Donald E. Hardaway, Richard P. Willi

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems**

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20 A knowledge-based water purification plant control system

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A knowledge-based control system has been developed and applied to a water purification plant. The objective of the system is to realize an intelligent supervisory control system that is based on the accumulated knowledge of experts. This control system employs a production system as an expert system.

"Knowledge" required for operating the plant is represented by IF-THEN rules. In order for such an expert system to operate in real time, an on-line interface and environment are r ...

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